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Application/Control No.

10/617,002

Examiner

Jude J. Jean-Gilles

Applicant(s)/Patent under Reexamination

SOUTHAM, BLAINE R.
Art Unit

2143

| √ | Rejected | - | (Through numeral)<br>Cancelled | N | Non-Elected  | Α | Appeal   |
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| Cla      | aim      |          |               |          |  | Date     | •             |  |                 |           |          | Clai     | m        |                     |          |          | D            | ate      |          |   |   | ]                 | CI       | aim        |                |                 |          |          | ate      |          | _                 |          |          |
|----------|----------|----------|---------------|----------|--|----------|---------------|--|-----------------|-----------|----------|----------|----------|---------------------|----------|----------|--------------|----------|----------|---|---|-------------------|----------|------------|----------------|-----------------|----------|----------|----------|----------|-------------------|----------|----------|
|          |          | 9        | T             |          |  |          |               |  |                 |           |          | Т        | =        | $\neg$              | Т        | П        | $\Box$       | Т        |          |   |   | ]                 |          | -          |                |                 |          |          |          |          | $\neg$            |          | П        |
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|          |          |          |               |          |  |          |               |  |                 |           |          |          |          |                     |          |          |              |          |          |   |   |                   |          |            |                |                 | _ [      |          |          |          |                   |          |          |
|          | 1        | 1        |               |          |  |          |               |  |                 |           |          |          | 51       |                     |          |          |              |          |          |   |   |                   |          | 101        |                |                 |          |          |          |          | $\Box$            | $\Box$   |          |
|          | 2        | 1        |               |          |  |          |               |  |                 |           |          |          | 52       |                     |          |          | _]           |          |          |   |   |                   |          | 102        |                |                 |          |          |          |          |                   |          |          |
|          | 3        | 1        |               |          |  |          |               |  | $\bot$          | _         | <u></u>  | _        | 53       | _                   | _        | _        | $\perp$      |          | $\perp$  | $\perp$   |   | ]                 | L        | 103        |                |                 |          |          |          | $\perp$  | $\perp$           |          | $\Box$   |
|          | 4        | V        | $\perp$       |          |  |          |               |  |                 | _         |          | $\perp$  | 54       |                     |          |          | _            |          |          |   |   | 1                 |          | 104        |                |                 |          |          |          |          | $\perp$           | _        |          |
|          | 5        | V        |               |          |  |          |               |  |                 | _         |          | 4        | 55       |                     | _        |          | _            | _        | _        | ┸   |   | Į                 | <u></u>  | 105        |                |                 |          |          |          |          | _                 | _        |          |
|          | 6        | 1        | _             |          |  |          |               | Ш  |                 | _         | <u> </u> | $\perp$  | 56       | _                   | _        | _        | _            | _        | _        | 1   | $\perp$   | 1                 | <u></u>  | 106        | _              | $\sqcup$        | _        | _        | _        |          | ·                 | _        | _        |
|          | 7        | 1        | _             |          |  |          |               | Ш  | _               | _         | <u> </u> |          | 57       | _                   | _        | _        | _            | _        | _        | 4   | $\bot$  | 1                 | <u> </u> | 107        | _              | Ш               |          |          | _        | _        | _                 | _        | _        |
|          | 8        | <b>√</b> | _             |          |  | _        |               |  | _               | _         | <u> </u> |          | 58       | _                   | _        | _        | 4            | 4        | 4        | $\bot$  | $\bot$  | 1                 |          | 108        | L.             | Ш               | _        | _        | _        | _        | $\dashv$          | _        | _        |
|          | 9        | <b>√</b> |               | _        |  | <u> </u> | _             |  |                 | 4         | <u> </u> | 4        | 59       | 1                   |          | _        |              |          | _        | $\perp$   | +   | -                 |          | 109        |                |                 |          |          | _        |          | $\dashv$          |          | 4        |
|          | 10       | 1        |               | _        |  | <u> </u> | Щ             |  | 4               | $\dashv$  | <u> </u> |          | 60       |                     | $\dashv$ | _        | $\dashv$     |          | _        | +   | -   | 1                 |          | 110        | $\vdash$       | $\sqcup$        |          |          |          |          | $\dashv$          |          | $\dashv$ |
| <u> </u> | 11       | <b>√</b> |               |          |  | ļ        |               | $\vdash$   | $\dashv$        | 4         | .        |          | 61       |                     | $\dashv$ | $\dashv$ |              | -        | -        | 4   | -   | 1                 |          | 111        | <u> </u>       |                 |          |          |          |          | $\dashv$          | $\dashv$ | $\dashv$ |
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|          | 13       | 1        |               |          |  |          | $\vdash \mid$ | $\vdash \vdash$  | $\dashv$        |           | $\vdash$ |          | 63       |                     | $\dashv$ |          |              | -+       | +        | +   | - -   | 1                 | -        | 113        | <del>  -</del> | $\vdash \vdash$ | $\dashv$ | $\dashv$ |          |          | $\dashv$          |          |          |
| ļ        | 14       | 1        |               |          | $\vdash$                               | $\vdash$ | Н             | Н  | $\dashv$        | $\dashv$  | _        | +        | 64<br>65 |                     |          |          | -            | -+       | +        | +   |   | 1                 | -        | 114        | <del> </del>   | $\vdash$        |          |          | -        | -        | $\dashv$          | $\dashv$ | ᅴ        |
|          | 15       | <b>√</b> | -             | $\dashv$ | -                                      | $\vdash$ | $\vdash$      | Н  | $\dashv$        | $\dashv$  | <u> </u> | +        | 65       | -                   |          | $\dashv$ | $\dashv$     | $\dashv$ | +        | +   | +   | $\left\{ \right.$ |          | 115<br>116 | -              | $\vdash$        |          |          |          | $\dashv$ | $\dashv$          |          | $\dashv$ |
| <u> </u> | 16<br>17 | √<br>√   |               |          |  | $\vdash$ | $\vdash$      | Н  | $\dashv$        | $\dashv$  |          |          | 66<br>67 | $\dashv$            | -+       | $\dashv$ | -            | $\dashv$ | +        | +   | +   | -                 |          | 117        | -              | $\vdash \vdash$ |          | $\dashv$ | -        |          | $\dashv$          | $\dashv$ | $\dashv$ |
|          |          | V<br>V   | $\dashv$      | -        |  | -        | -             | <b></b>  | -               | -         | -        | +        | 68       |                     | -1       | $\dashv$ | -            | -        | -        | +   |   | 1                 |          | 118        | -              | $\vdash$        |          | -        |          |          | $\dashv$          | $\dashv$ |          |
|          | 18<br>19 | √<br>√   | $\dashv$      |          |  | -        |               |  | -               | $\dashv$  | -        | +        | 69       | -                   | +        | $\dashv$ | $\dashv$     |          | +        | +   | +   | -                 |          | 119        | -              |                 | -        |          |          |          | +                 |          |          |
| <u> </u> | 20       | √<br>√   | $\dashv$      | -        | -                                      | -        |               | -  |                 | $\dashv$  | -        |          | 70       | $\dashv$            | $\dashv$ | $\dashv$ | $\dashv$     |          | +        | +   | +   | 1                 |          | 120        |                | ┝─┤             | $\dashv$ |          | $\dashv$ | $\dashv$ | $\dashv$          | -        |          |
|          | 21       | V        | $\dashv$      | $\dashv$ | -                                      | ├        |               | -  | $\vdash$        | $\dashv$  | $\vdash$ | +        | 71       | _                   | $\dashv$ | -        | $\dashv$     | $\dashv$ | +        | +   | +   | ┨                 |          | 121        | ╁─             | $\vdash$        |          |          | $\dashv$ | -        | $\dashv$          | -        | ᅱ        |
| ├─       | 22       | 1        | $\vdash$      |          | -                                      | $\vdash$ |               | Н  | $\vdash$        | $\dashv$  | $\vdash$ |          | 72       | $\dashv$            | $\dashv$ | -        | $\dashv$     | $\dashv$ | +        | +   | +-  | ┨                 | -        | 122        | ├              | $\vdash$        | $\dashv$ | -        | -        | -        | $\dashv$          | $\dashv$ | $\dashv$ |
|          | 23       | V        | $\dashv$      | $\dashv$ |  | $\vdash$ |               | H  | $\vdash$        | $\dashv$  | $\vdash$ | $\dashv$ | 73       |                     |          |          |              | $\dashv$ | $\dashv$ | +   |   | ┨                 | $\vdash$ | 123        | ┢              | -               |          |          | $\dashv$ | $\dashv$ | $\dashv$          | $\dashv$ | ᅱ        |
| <b></b>  | 24       | 1        | -             | -        | _                                      | ⊢        |               | H  | $\vdash$        | $\dashv$  | $\vdash$ | +        | 74       | -                   | -        | $\dashv$ | -            | ┿        | $\dashv$ | ╅   |   | ┨                 | <b>}</b> | 124        | ┢              | ┢┈┼             | -        |          |          |          | $\dashv$          | -        | ᅱ        |
|          | 25       | V        | -             |          | _                                      | $\vdash$ |               | Н  | $\vdash$        | $\dashv$  | $\vdash$ | $\dashv$ | 75       | -                   | -        | -+       | -            | $\dashv$ | $\dashv$ | +   | - -   | ┪                 | -        | 125        | H              | $\vdash$        |          | -        |          | <u></u>  | $\dashv$          | $\dashv$ | ᅱ        |
|          | 26       | V        | $\dashv$      | _        |  |          |               |  | $\dashv$        | $\dashv$  | $\vdash$ | $\dashv$ | 76       | -                   | +        | -        | -            | 十        | +        | ╅   | ╅   | 1                 | -        | 126        | $\vdash$       | Н               |          |          | $\dashv$ | $\dashv$ | $\dashv$          | ┪        | $\neg$   |
| -        | 27       | V        | $\dashv$      | $\neg$   | _                                      | $\vdash$ |               |  | $\dashv$        | $\dashv$  | $\vdash$ | $\dashv$ | 77       | $\dashv$            | $\dashv$ | $\dashv$ | $\neg$       | $\dashv$ | $\top$   | $\dashv$  |   | 1                 | $\vdash$ | 127        | H              |                 |          |          |          | <u> </u> | $\dashv$          | ╛        | $\dashv$ |
|          | 28       | 1        | $\dashv$      | _        |  |          |               |  |                 | $\dashv$  |          |          | 78       | +                   | 十        | 寸        | $\neg$       | 7        | _        | 7   |   | 1                 |          | 128        | t              |                 |          |          |          | 一        | 寸                 | ヿ        | $\neg$   |
|          | 29       | 1        | $\neg$        | _        | -                                      | t        |               | $\vdash$   |                 | ┪         | -        | +        | 79       |                     | 7        | _        |              | _        |          | ┪   |   | 1                 |          | 129        |                | Н               | $\Box$   |          |          | 寸        | $\dashv$          | ヿ        | $\neg$   |
|          | 30       | 1        |               |          |  | <u> </u> |               |  |                 | $\exists$ |          |          | 80       | $\exists$           | $\dashv$ |          |              |          |          | _   |   | 1                 |          | 130        |                | П               |          |          | ヿ        | $\neg$   | 寸                 | ヿ        | $\neg$   |
|          | 31       | 1        |               |          | _                                      |          | _             | _  | $\neg \uparrow$ | $\neg$    |          |          | 81       | ╛                   | $\dashv$ | $\neg$   |              | $\dashv$ | $\dashv$ | 十   |   | 1                 |          | 131        |                |                 |          |          |          | $\neg$   | 寸                 | $\neg$   | ᅥ        |
| -        | 32       | П        |               |          |  |          | Г             | $\Box$   | $\Box$          | $\neg$    |          |          | 82       |                     | $\dashv$ | 寸        | 1            | $\neg$   | 1        | $\top$  | $\top$  | 1                 |          | 132        | 1              |                 |          |          |          |          | 寸                 | $\neg$   | $\neg$   |
|          | 33       | П        | $\Box$        |          |  |          |               |  |                 |           |          |          | 83       |                     |          | ╗        |              |          |          | ╗   |   | ]                 |          | 133        |                |                 |          |          |          |          |                   |          |          |
|          | 34       |          |               |          |  |          |               |  |                 |           |          |          | 84       |                     | $\Box$   |          |              |          |          | I   |   | ]                 |          | 134        |                |                 |          |          |          |          | $\Box$            |          |          |
|          | 35       |          |               |          |  |          |               |  |                 |           |          |          | 85       |                     |          |          |              |          | $\Box$   | I   | $oldsymbol{oldsymbol{oldsymbol{oldsymbol{\Box}}}$ | ]                 |          | 135        |                |                 |          |          |          |          |                   |          |          |
|          | 36       |          |               |          |  |          |               |  |                 |           |          |          | 86       |                     |          |          |              |          |          |   |   | ]                 |          | 136        |                |                 |          |          |          |          |                   |          |          |
|          | 37       |          |               |          |  |          |               |  |                 |           |          |          | 87       |                     |          |          |              |          |          |   |   |                   |          | 137        |                |                 |          |          |          |          | $\Box$            |          |          |
|          | 38       |          |               |          |  |          |               |  |                 |           |          |          | 88       |                     |          |          |              |          | $\Box$   |   |   |                   |          | 138        |                |                 |          |          |          |          | $\Box$            |          |          |
|          | 39       |          |               |          |  |          |               |  |                 |           |          |          | 89       |                     |          |          |              |          |          |   |   |                   |          | 139        |                | Ш               |          |          |          |          | $\Box$            |          |          |
|          | 40       |          |               |          |  |          | 匚             |  |                 |           |          |          | 90       |                     |          |          |              |          | $\Box$   | $oldsymbol{ol}}}}}}}}}}}}}} $ |   |                   |          | 140        |                |                 |          |          |          |          | $oldsymbol{\bot}$ |          |          |
|          | 41       |          |               |          | ــــــــــــــــــــــــــــــــــــــ | $\Box$   | $\Box$        |  |                 |           |          |          | 91       | $oxed{oxed}$        |          | I        | $oxed{oxed}$ | [        |          |   |   | ]                 |          | 141        | $oxed{\Box}$   | Ш               |          |          |          |          | $\perp$           | ]        | ]        |
|          | 42       | $\Box$   | لَـــا        |          |  |          | <u></u>       |  | Ш               |           |          |          | 92       |                     |          |          |              | [        |          | $\perp$   |   | 1                 |          | 142        |                | Ш               |          | Щ.       |          |          | _[                | $\Box$   |          |
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|          | 44       |          | $oxed{oxed}$  |          | <u> </u>                               | <u> </u> | L             | $ldsymbol{le}}}}}}}}$ | Ш               | $\sqcup$  | <u> </u> |          | 94       |                     | _        |          | _            | _        | $\perp$  | $\perp$   |   | 1                 |          | 144        | ┞-             | $\sqcup$        |          | Щ.       |          |          |                   |          |          |
| <u></u>  | 45       | Ш        | igsqcup       |          | <u> </u>                               | <u> </u> | <u> </u>      | L  | Щ               |           | <u> </u> | _        | 95       | $\Box$              | _ļ       |          |              |          | _        | $\perp$   | _   | 4                 |          | 145        | <u> </u>       | Ш               |          | _        |          |          |                   | _        |          |
|          | 46       | Ш        | Щ             |          | <u> </u>                               | L_       | <u>_</u>      |  |                 | _         | $\perp$  |          | 96       | Ш                   |          |          |              | _        | $\perp$  | _   |   | 1                 |          | 146        | _              | Ц               |          | _        | Щ        |          |                   | _        |          |
|          | 47       | Ш        | Щ             | _        | ļ                                      | _        | <u> </u>      | <u> </u>   | $\sqcup$        | _         | $\perp$  |          | 97       | $\sqcup \downarrow$ | _        | _        | _            | _        | _        | +   | -   | 4                 |          | 147        | 1              | Ш               |          | ш        | Щ        | Ш        | _                 | _        |          |
|          | 48       | $\perp$  | $\sqcup$      |          | <u> </u>                               | $\vdash$ | <u> </u>      | <u> </u>   | $\sqcup$        | _         | $\vdash$ |          | 98       | $\sqcup$            | _        | _        | _            | _        | $\perp$  | 4   | -   | 4                 |          | 148        | ↓_             |                 |          | <u> </u> | Щ        | Щ        | $\dashv$          |          |          |
| <u></u>  | 49       | <b>—</b> | $\square$     |          | <u> </u>                               | ┞        | <u> </u>      | <u> </u>   | $\sqcup$        | _         | $\vdash$ |          | 99       | $\sqcup$            | _        |          | $\Box$       |          | $\dashv$ | 4   |   | 4                 |          | 149        | ـــ            |                 | L        | L        |          | Ш        | _                 | _        |          |
|          | 50       |          |               |          | L                                      | <u> </u> |               |  |                 |           | L        | $\perp$  | 100      |                     |          |          |              | 1        |          |   |   | J                 | L        | 150        | <u> </u>       |                 |          | <u></u>  |          | لــــا   | Ш                 |          |          |